

FIBI064-R4

Pequest River

Johnsonburg Road

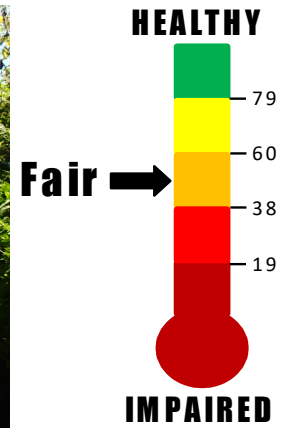
Municipality: Allamuchy Twp

County: Warren

Drainage Area (sq miles): 37

Sample Date: 9 /22/2017

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	24.15
Metric 2-%Cold Non-tolerant Coolwater	32.05
Metric 3-%Generalist Richness	76.58
Metric 4-Tolerance Index	40.42
Metric 5-%Lithophilic Richness	43.47
Metric 6-%Cyprinidae	25.56
Metric 7-%Dominant 3 Taxa	46.43
Metric 8-%Benthic Insectivore Richness	52.98

Field Chemistry

Air Temp (°C)	24.6
Water Temperature (°C)	20.22
Dissolved Oxygen (mg/L)	7.9
% Saturation	87.9
pH	8.03
Conductivity (µS/cm)	634.7
Total Kjeldahl (mg/L)	0.36
Total Phosphorus (mg/L)	0.02
Nitrate/Nitrite (mg/L)	0.64

Northern Fish IBI Score (0-100): 42.70

IBI Rating: Fair

High Gradient Habitat Score (0-200): 127

Habitat Rating: Suboptimal

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Common Name	Scientific Name	Abundance
Banded Killifish	<i>Fundulus diaphanus</i>	278
American Eel	<i>Anguilla rostrata</i>	187
Tessellated Darter	<i>Etheostoma olmstedi</i>	146
Swallowtail Shiner	<i>Notropis procne</i>	104
Bluegill	<i>Lepomis macrochirus</i>	85
Redbreast Sunfish	<i>Lepomis auritus</i>	36
Sea Lamprey	<i>Petromyzon marinus</i>	34
White Sucker	<i>Catostomus commersoni</i>	17
Blacknose Dace	<i>Rhinichthys atratulus</i>	15
Margined Madtom	<i>Noturus insignis</i>	15
Cutlips Minnow	<i>Exoglossum maxillingua</i>	11
Redfin Pickerel	<i>Esox americanus americanus</i>	10
Rock Bass	<i>Ambloplites rupestris</i>	8
Creek Chubsucker	<i>Erimyzon oblongus</i>	7
Common Shiner	<i>Luxilus cornutus</i>	4
Creek Chub	<i>Semotilus atromaculatus</i>	4
Pumpkinseed	<i>Lepomis gibbosus</i>	3
Yellow Bullhead	<i>Ameiurus natalis</i>	3
Largemouth Bass	<i>Micropterus salmoides</i>	2
Chain Pickerel	<i>Esox niger</i>	2